



University of Central Florida

CHM2046.0011 – Chemistry Fundamentals II Laboratory
Fall 2006
Edgar A. Perez II

Contacting the Professor	Contacting the Class
Office Hrs: TUE 04:00 PM – 08:00 PM WED 10:00 AM – 02:00 PM THU 10:00 AM – 02:00 PM	Class E-mail: Use WebCT Discussion Posts.
Office: CHM230	Course Web Site: http://www.chm2046.com
Phone: (407) 823-4171	Online Discussions: http://webct.ucf.edu
FAX: N/A	Class Location: CH-109
E-Mail: eperezcr@mail.ucf.edu	Class Time: WED 1:00 PM – 5:00 PM
AIM: TCT	

Course Description

The course is an introductory laboratory course with emphasis on applying lectured, theoretical principles in a hands-on setting. The lab will provide a correlation between theory and practice and should help explain how scientists arrived at their theories from practical, experimental approaches within the laboratory setting. The course emphasizes the use of the Scientific Method to rationalize work performed and allow students to produce laboratory reports comparable to those found in scientific journals.

Course Objectives:

As a student in an introductory level chemistry course, you will be expected to grasp a majority of the concepts and underlying principles related to the field of chemistry. The course is structured to provide an introduction to the various disciplines of chemistry including Organic, Physical, Analytical, and Inorganic. It is in the student's best interest to try to learn all of the ground-level knowledge taught in these introductory courses as all subsequent coursework in the major will be built upon the information provided.

Required Texts

- Brown, Lemay, Bursten, *Chemistry: The Central Science*, 8th Edition, Prentice Hall, Upper Saddle River, NJ, 2000.
- Laboratory Coat.
- Composition Notebook or Equivalent for Data Entry. (No Spiral or Loose-leaf Allowed)

Supplemental Materials

- Gloves are not required but will be provided if hazardous materials are used.
- Labels and a Sharpie marker may be appropriate for identifying glassware but are not required as other means of identification could be used.

Library Resources

- Check out general chemistry textbooks found through WebLUIIS Catalog.
- Go here to learn how to use WebLUIIS: <http://library.ucf.edu/>

Evaluation Procedures

Grade Categories	Description of the Requirements	% of Grade
Attendance	Weekly attendance / cooperation in labs.	10%
Laboratory Notebook	Detailed notebook in proper format.	10%
Laboratory Reports	Reports comparable to journal format papers.	40%
Oral Exams / Quizzes	Weekly oral exams / quizzes.	20%
Final Exam	Comprehensive Laboratory Exam	20%

➤ Please see WebCT for supplemental information regarding content breakdown.

Technology Requirements:

Technology	Expectations for Use
E-mail:	Students may contact me through my e-mail or AIM screen name. Please be sure to contact me with relevant information, do not use either mode of communication for spam (unwanted and unnecessary information). I will respond to e-mails typically within 24 hours. If concerns require special attention or are of a sensitive nature and you do not feel like submitting your request via email, please see me in person during the posted office hours.
WebCT:	WebCT is a webpage (http://webct.ucf.edu) in which will be used as a medium for turning in some assignments and a forum for communicating with your laboratory partners. Under the "Discussion" section, you will have a designated forum section. My recommendation is to check WebCT every 2-3 days for updates from your group members or myself. http://www.fctl.ucf.edu/syllabus/statements.htm
Special Tools:	Students will be expected to have access to a computer frequently, as all laboratory reports will be typed out and not handwritten. The software you use to write your reports is irrelevant, as long as you follow the guidelines presented in the first laboratory lecture about report formats. I recommend you have access to a computer weekly. You will be expected to have daily access to the internet and email, since I will be emailing you constantly about assignment updates, additions and changes. If you do not have an email account, there are free providers available to you, including Pegasus email, GMail, Hotmail and Yahoo mail. If you do not own a computer, there are computer accessible to you in all UCF's computer labs. For further information on computer labs, please see the following website: http://pegasus.cc.ucf.edu/~enrsvc/schedweb/txt/quik_01.htm .
Other:	Students should become familiar with Powerpoint or Keynote in order to do the final presentation in the course. More details will be discussed when the time comes around.

Additional Policies

Grading and Evaluation	No laboratory experiments will be dropped. All reports must be successfully completed by the assigned time. The instructor reserves the right to drop the lowest laboratory report grade at the end of the semester should the need present itself and benefit the entire group as a whole while maintaining the integrity of the course.
Attendance and Participation	Punctuality will be necessary to achieve success in this lab, as once your group has been selected to take part in an oral exam, you may not join after their evaluation completed. If for any reason you are absent from two labs your course grade will drop by one full grade (10%). If for any reason you are absent from three labs you will receive a "D" (60%) for your course grade. If you miss four or more labs you will receive an "F" for the course.
Pre-requisite Coursework	Since this is an introductory course, students are not expected to have received in-depth training in the field of chemistry. General chemistry topics discussed in the sophomore/junior high school level will certainly help, but are not a requirement. If you feel you are overwhelmed, contact the instructor immediately for possible alternatives to handling coursework including supplemental assistance from SARC.
Deadlines	Oral exams or written quizzes will be performed in group settings at the beginning of each laboratory section. Laboratory reports will be due at the beginning of the following lab period. Please see schedule for weekly breakdown of assignments and topics.
Late, Make-up and Extra-credit Work	Labs assignments are due at the start of the next laboratory period. No late lab reports will be accepted. Laboratory reports that are not stapled in the upper left hand corner will not be accepted. Due to practicality issues there will be scheduled no make-up labs, although the option of coming to another laboratory section performing the weekly experiment will be allowed under exceptional circumstances. The instructor reserves the right to deduct points for hazardous lab spaces and improper laboratory technique. Supplemental work may be assigned throughout the semester in order to help students grades if needed. The stipulations described may sound harsh for an introductory course, and I understand that occasionally someone may have a protracted illness that causes him or her to miss several weeks of lab. Each of you who pursue further courses within the subject will find that the labs will become more strict as you progress to Analytical and Physical chemistry labs. Instructors impose these demands to prepare students to work in industrial or government labs doing research and development. If someone fails to complete a substantial portion of the scheduled laboratory experiment, they miss out on many important concepts and skills, and I cannot accurately assess their overall performance in the course.
UCF Creed	UCF faculty support the UCF creed. <i>Integrity</i> - practicing and defending academic and personal honesty - is the first tenet of the UCF Creed. This is in part a reflection of the second tenet, <i>Scholarship</i> : - I will cherish and honor learning as a fundamental purpose of membership in the UCF community. - Course assignments and tests are designed to have educational value; the process of preparing for and completing these exercises will help improve your skills and knowledge. Material presented to satisfy course requirements is therefore expected to be the result of your own original scholarly efforts. Plagiarism and cheating - presenting another's ideas, arguments, words or images as your own, using unauthorized material, or giving or accepting unauthorized help on assignments or tests - contradict the educational value of these exercises. Students who attempt to obtain unearned academic credentials that do not reflect their skills and knowledge can also undermine the value of the UCF degrees earned by their more honest peers. UCF faculty members have a responsibility for your education and the value of

	<p>a UCF degree, and so seek to prevent unethical behavior and when necessary respond to infringements of academic integrity. Penalties can include a failing grade in an assignment or in the course, or suspension or expulsion from the university. See http://www.osc.sdes.ucf.edu/ for more information about UCF's Rules of Conduct.</p>
<p>Academic Integrity</p>	<p>Plagiarism and Cheating of any kind on an examination, quiz, or assignment will result at least in an "F" for that assignment (and may, depending on the severity of the case, lead to an "F" for the entire course) and may be subject to appropriate referral to the Office of Student Conduct for further action. See the UCF Golden Rule for further information. I will assume for this course that you will adhere to the academic creed of this University and will maintain the highest standards of academic integrity. In other words, don't cheat by giving answers to others or taking them from anyone else. I will also adhere to the highest standards of academic integrity, so please do not ask me to change (or expect me to change) your grade illegitimately or to bend or break rules for one person that will not apply to everyone.</p> <p>In this course we may utilize turnitin.com, an automated system which instructors can use to quickly and easily compare each student's assignment with billions of web sites, as well as an enormous database of student papers that grows with each submission. Accordingly, you will be expected to submit all assignments in both hard copy and electronic format. After the assignment is processed, as instructor I receive a report from turnitin.com that states if and how another author's work was used in the assignment. For a more detailed look at this process visit www.turnitin.com.</p>
<p>Teamwork</p>	<p>This course relies heavily on teamwork and cooperation throughout the semester. Early on in the semester, you will be assigned into groups of four at random and will be asked to accomplish various experiments in a group effort. Since your final grade is mostly composed of grades on various team projects, teamwork skills are essential for this class. If you are having difficulties with working in groups, please feel free to discuss this with me and whether this course is ideal for you. Although you are working in teams, all work must be produced independently. If work is found to be plagiarized, all parties responsible will be accountable under the stipulations provided by the Golden Rule.</p>
<p>Accommodations for Students with Special Needs</p>	<p>The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the professor to request accommodations. Students who need accommodations must be registered with Student Disability Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.</p> <p style="text-align: right;">http://www.fctl.ucf.edu/syllabus/statements.htm</p>
<p>Indemnity Clause</p>	<p>The instructor reserves the right to modify any and all portions of this syllabus in any way he or she sees fit while maintaining the academic integrity of the course.</p>



University of Central Florida

CHM2046L: General Chemistry II Lab Laboratory Syllabus Fall Semester 2006

WED 1:00 PM - 5:00 PM, CH-109

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Tentative Schedule of Labs

<u>Date</u>	<u>Topic</u>	<u>Experiment</u>
08/16/2006	Lab 1: Check-In & Safety/ Reaction Rates Experiment	1
08/23/2006	Lab 2: Kinetics: Determination of a Rate Law <i>Laboratory Report 01 Due, Oral Exam / Written Quiz</i>	2
08/30/2006	Lab 3: Ideal Gas Law <i>Laboratory Report 02 Due, Oral Exam / Written Quiz</i>	3
09/06/2006	Lab 4: Le Chatelier's Principle <i>Laboratory Report 03 Due, Oral Exam / Written Quiz</i>	4
09/13/2006	Lab 5: Acids and Bases <i>Laboratory Report 04 Due, Oral Exam / Written Quiz</i>	5
09/20/2006	Lab 6: Acid-Base Titrations <i>Laboratory Report 05 Due, Oral Exam / Written Quiz</i>	6
09/27/2006	Lab 7: Solubility Principles <i>Laboratory Report 06 Due, Oral Exam / Written Quiz</i>	7
10/06/2006	NO LAB	-
10/13/2006	Lab 8: Solution Equilibrium <i>Laboratory Report 07 Due, Oral Exam / Written Quiz</i>	8
10/20/2006	Lab 9: Oxidation and Reduction <i>Laboratory Report 08 Due, Oral Exam / Written Quiz</i>	9
10/27/2006	Lab 10: Beer's Law <i>Laboratory Report 09 Due, Oral Exam / Written Quiz</i>	10
11/3/2006	Lab 11: Introduction to Organic Molecules <i>Laboratory Report 10 Due, Oral Exam / Written Quiz</i>	11
11/10/2006	Lab 12: Check out & Clean-up (Final Day for ALL Reports) <i>Laboratory Report 11 Due</i>	12
11/17/2006	NO LAB (Prepare for Final Exam – Assigned Lab Presentations)	-
11/24/2006	Lab 13: Literature Presentations Part 01 (Final Exam)	13
12/3/2006	Lab 14: Literature Presentations Part 02 (Final Exam)	14